

The LS333ANS-2LED is a swimming pool rated luminaire and is one of Lumascape's most popular. It is constructed entirely of 316 marine grade stainless steel and utilises a special alignment feature to ensure the beam of light is perpendicular to the installation surface, even if the pre-installation blockout niche is not. The use of LEDs allows for the creative introduction of colour and improved energy efficiency.

Performance

| Static White & Colour | Lumen Output (lm) | Efficacy (Im/W) | Peak Intensity (cd) |
|--------------------------------|-------------------|-----------------|---------------------|
| 3,000 K (80 CRI) | 479 | 67 | 6,847 |
| 4,000 K (80 CRI) | 592 | 82 | 7,420 |
| Blue (470nm) | - | - | - |

Static white lumen output values are based on a 6W luminaire with 14° lens.

| Dynamic Colour | Lumen Output (Im) | Efficacy (Im/W) | Peak Intensity (cd) |
|----------------|-------------------|-----------------|---------------------|
| ♥ RGB | 149 | 19.4 | 313 |

Dynamic colour lumen output values are based on a 6W luminaire with 40° lens.

| Beam Angles | 14°, 20°, 25°, 40° | |
|-------------|--|--|
| | Not available with all light engines. Refer to Specification Matrix. | |

Electrical

| LED Power | 3W, 6W or 9W | 3W, 6W or 9W | |
|-------------------|---|--|--|
| Consumption | 7.2W (nominal f | 7.2W (nominal for 6W) | |
| Input Voltage | Low Voltage | 24V DC (International Market) 12-15V AC, 12-24V DC (North American Market) | |
| Equivalent Rating | 6W/450lm LED is approximately equivalent to 40W incandescent lamp 9W/700lm LED is approximately equivalent to 60W incandescent lamp | | |

Control

Rating

| Piolocois | F VVIVI (0-10V to PVVM and DMX to PVVM converters available) |
|--|--|
| Physical | |
| Housing | 316 Marine Grade Stainless Steel with Teflon coated cover screws |
| Installation Pre-installation niche included | |
| Water Temperature | 5°C to 40°C (41°E to 104°E) |









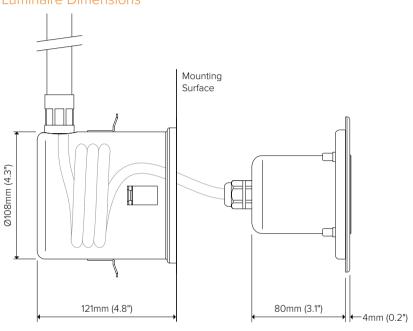




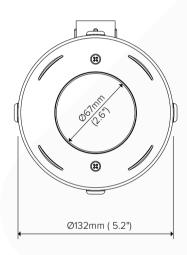
Certification & Compliance

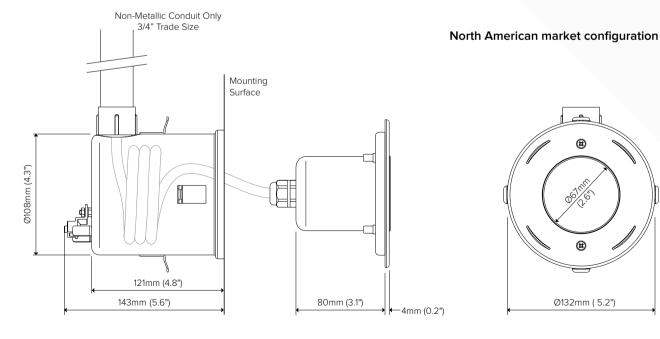
| IP Rating | IP68 to 10m (33ft) |
|----------------|---|
| IK Rating | IK10 with OptiClear™ lens |
| Environment | Swimming pool, spa and fountains - wet niche (Not approved for use in Canada) |
| Certifications | CE, UL676 Underwater Luminaires |

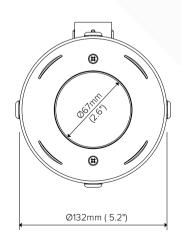
Luminaire Dimensions

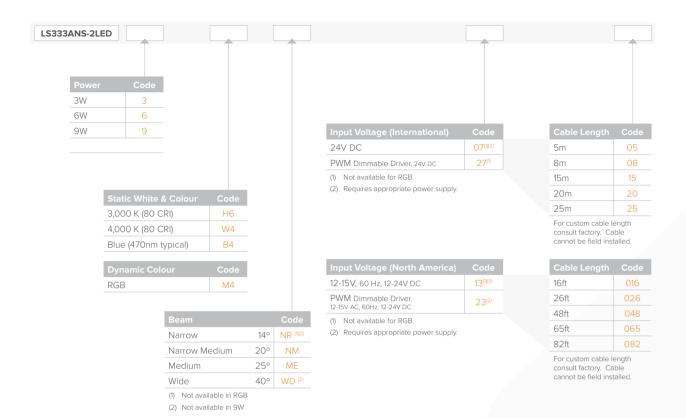


International market configuration

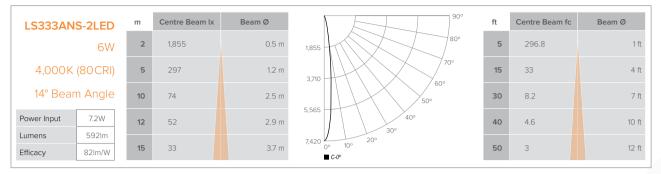


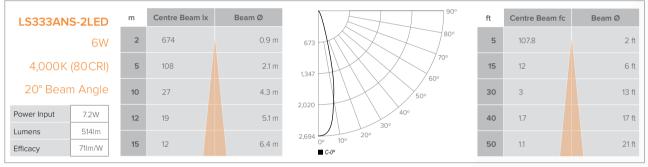


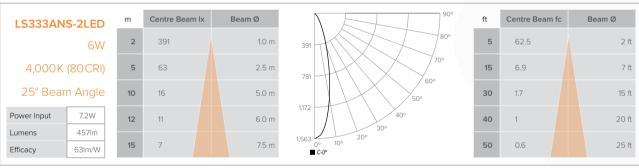




Photometric data is based on test results from a NIST traceable testing lab. IES data is available at www.lumascape.com Note: No depreciation factor is applied to the data shown.





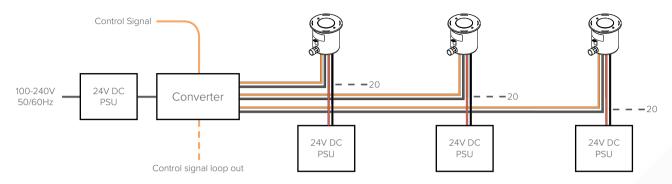


| LS333ANS-2LED | m | Centre Beam Ix | Beam Ø | 900 | ft | Centre Beam fc | Beam Ø |
|-------------------------------|----|----------------|--------|----------------|----|----------------|--------|
| 6W | 2 | 177 | 1.5 m | 177 80° | 5 | 28.3 | 4 ft |
| 4,000K (80CRI) | 5 | 28 | 3.6 m | 353 | 15 | 3.1 | 11 ft |
| 40° Beam Angle | 10 | 7 | 7.3 m | 50° | 30 | 0.8 | 22 ft |
| Power Input 7.2W | 12 | 5 | 8.7 m | 530 40° | 40 | 0.4 | 29 ft |
| Lumens 354lm Efficacy 49lm/W | 15 | 3 | 10.9 m | 707 0° 10° 20° | 50 | 0.3 | 36 ft |



nternational Market

Wiring Diagram - Static Colour (DMX)



Control Protocols

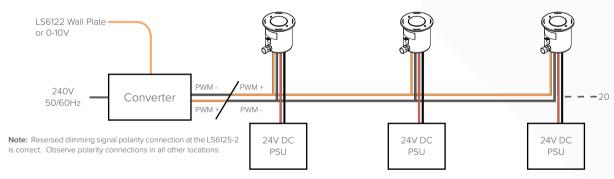


For DMX control signal, use LS67100 DMX to PWM converter

Up to 20 luminaires per run under the following conditions:

- ☐ Up to three (3) individually addressed dimmable channels
- ☐ Up to 20 luminaires per dimmable channel
- ☐ Luminaires driven by integral LED drivers
- ☐ Luminaires powered through individual power supplies
- ☐ Refer to 'Maximum Circuit Load' table for circuit limitations
- $\hfill \square$ Always observe local electrical codes for branch circuit current limitations
- ☐ Suitable for installation into swimming pools in Australia

Wiring Diagram - Static Colour (0-10V)



Control Protocols



For 0-10V control signal, use LS6125-2 0-10V to PWM converter

Up to 20 luminaires per run under the following conditions:

- $\hfill \square$ Stand alone static colour dimming solution
- $\hfill\square$ Up to 20 luminaires dimmed together
- ☐ Luminaires driven by integral LED drivers using LS6122 wall plate dimmer
- $\hfill \square$ Luminaires powered through individual power supplies
- ☐ Refer to 'Maximum Circuit Load' table for circuit limitations
- $\hfill \square$ Always observe local electrical codes for branch circuit current limitations
- $\hfill \square$ Suitable for installation into swimming pools in Australia

Maximum Circuit Load

Compatibility with each driver is indicated by the value shown in the table, representing the maximum number of luminaires that may be powered from each driver based on a maximum cable run of 100m (328ft) and a trunk cable size of 3.3mm². Please note, this does not take into consideration voltage drop beyond a distance of 100m or ampacity limits of the branch circuit. For assistance, please consult factory.

| | LSLED-2 | 24V Power S | Supplies | | |
|---------------------|-------------------|-------------|----------|--|--|
| Input Voltage | 100-240V, 50/60Hz | | | | |
| Output Voltage | | 24V DC | | | |
| Wattage | 40W | 100W | 150W | | |
| LS333ANS-2LED, 3W | 5 | 18 | 23 | | |
| LS333ANS-2LED, 6W | 3 | 10 | 14 | | |
| 1 2333VN2-31 ED .0M | | 6 | Q | | |

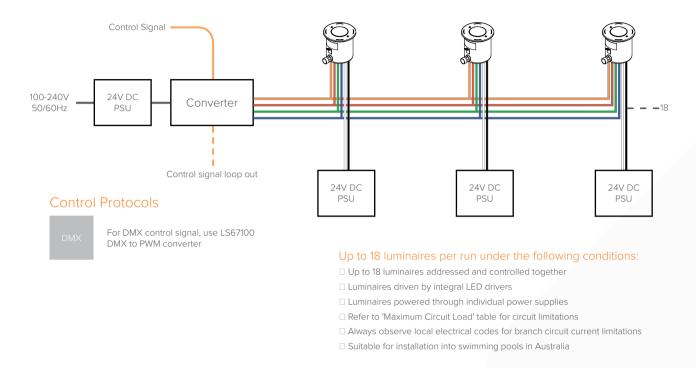
NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary device. These diagrams are not intended to show type or colour of cord / wire, luminaire input voltage rating, wire gauge or approved use of the cord / wire supplied with luminaires.





nternational Market

Wiring Diagram - Dynamic Colour (DMX)



Maximum Circuit Load

Compatibility with each driver is indicated by the value shown in the table, representing the maximum number of luminaires that may be powered from each driver based on a maximum cable run of 100m (328ft) and a trunk cable size of 3.3mm². Please note, this does not take into consideration voltage drop beyond a distance of 100m or ampacity limits of the branch circuit. For assistance, please consult factory.

LSLED-24V Power Supplies

| Input Voltage | 100-240V, 50/60Hz | | | |
|-------------------|-------------------|--------|------|--|
| Output Voltage | | 24V DC | | |
| Wattage | 40W | 100W | 150W | |
| LS333ANS-2LED, 3W | 5 | 18 | 23 | |
| LS333ANS-2LED, 6W | 3 | 10 | 14 | |
| LS333ANS-2LED, 9W | - | 6 | 9 | |

NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary device. These diagrams are not intended to show type or colour of cord / wire, luminaire input voltage rating, wire gauge or approved use of the cord / wire supplied with luminaires.



International Market

Power Supply Specifications

DC Power Supplies

LSLED-24V100W240

24V DC Ripple Free Power Supply

| Input | 170-250V AC, 50/60Hz |
|-------------------------------|----------------------|
| Output | 100W, 24V DC, 4.2A |
| Ambient Temperature Rating | -10°C to 50°C |
| Compliance | IEC61347-2-13, CE |
| IP Rating | IP66 |
| Short Circuit Protection | Yes |
| Open Circuit Protection | Yes |
| Protection Class | Class II CE |
| | |

LSLED-24V150W240

24V DC Ripple Free Power Supply

| Input | 90-305V AC, 50/60Hz |
|-------------------------------|---------------------|
| Output | 150W, 24V DC, 6.3A |
| Ambient Temperature Rating | -10°C to 50°C |
| Compliance | IEC61347-2-13, CE |
| IP Rating | IP66 |
| Short Circuit Protection | Yes |
| Open Circuit Protection | Yes |
| Protection Class | Class II CE |

LSLED-24V40W240

Electronic DC Power Supply - wall mounted

| Input | 100-240V AC, 50/60Hz |
|-------------------------------|---|
| Rating | 40W / 1.67A |
| Output | 24V |
| Ambient Temperature Rating | -25°C to 60°C (-13°F to 140°F) |
| Output Circuits | 1 |
| Approvals | CE, EN60950-1, EN61347-2-13 |
| IP Rating | IP65/67 |
| Dimensions | H 171mm W 62mm L 37mm (H 6.7" / W 2.4" / L 1.5") |
| Weight | 0.7kg (1.6lb) |

Control Related Equipment

LS6125-2

0-10V to PWM translator - wall mounted

| Input | 100-240V AC, 50/60Hz |
|-------------------------------|--|
| Rating | 20W / 0.83A |
| Output | 24V |
| Ambient Temperature Rating | -10°C to 50°C |
| Open Circuits | 1 |
| Control Protocol | 0-10V |
| Approvals | CE |
| IP Rating | IP65/67 |
| Dimensions | H 204mm W 166mm L 91mm (H 8.0" / W 6.5" / L 3.6") |
| Weight | 0.5kg (1.1lb) |

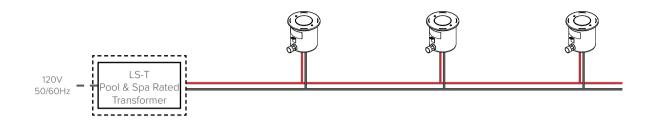
LS67100

DMX to PWM translator

| Input | 24V DC |
|---------------|--|
| Rating | 4 x 60W max |
| Output | 4 x 2.5A max |
| Open Circuits | 4 |
| Approvals | CE, UL |
| IP Rating | IP65 |
| Dimensions | H 286mm W 117mm L 82mm (H 11.25" / W 4.6" / L 3.2") |
| Weight | 0.2kg (0.5lb) |

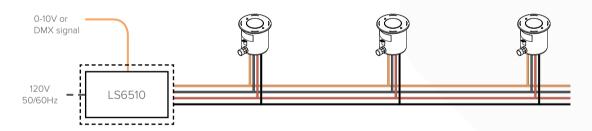
North American Market

Wiring Diagram - Static Colour - Non-Dimming 12-15V AC



Wiring Diagram - Static Colour (0-10V / DMX) on 24V DC Circuit

Please note: The use of a GFCI may be required. Consult local wiring rules.



Control Protocols



Maximum Circuit Load

Compatibility with each transformer or power supply is indicated by the value shown in the table, representing the maximum number of luminaires that may be powered from each transformer or power supply. Please note, this does not take into consideration voltage drop or ampacity limits of the branch circuit. In addition, dimming circuit total wire length must be kept under 328' (100m). For assistance, please consult factory.

| | | | | 1 1 2 |
|-------------------|-----------------|----------|------------|--------|
| | LS-T-100 | LS-T-300 | LS-T-500 | LS6510 |
| Input Voltage | 120V, 60Hz | | 120V, 60Hz | |
| Output Voltage | 12/13/14V, 60Hz | | 24V DC | |
| Wattage | 100W | 300W | 500W | 240W |
| LS333ANS-2LED, 3W | 14 | 42 | 70 | 45 |
| LS333ANS-2LED, 6W | 7 | 23 | 38 | 29 |
| LS333ANS-2LED, 9W | 5 | 15 | 25 | 18 |

NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary device. These diagrams are not intended to show type or colour of cord / wire, luminaire input voltage rating, wire gauge or approved use of the cord / wire supplied with luminaires.

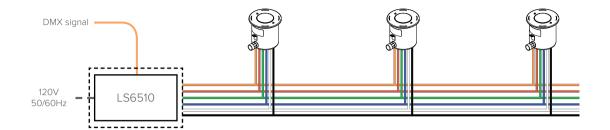


Pool, Spa & Fountain Power Supply



North American Market

Wiring Diagram - Dynamic Colour (DMX) for 24V DC Circuit



Control Protocols



For DMX control signal, use LS67100 DMX to PWM converter

Maximum Circuit Load

Compatibility with each transformer or power supply is indicated by the value shown in the table, representing the maximum number of luminaires that may be powered from each transformer or power supply. Please note, this does not take into consideration voltage drop or ampacity limits of the branch circuit. In addition, dimming circuit total wire length must be kept under 328' (100m). For assistance, please consult factory.

| | LS-T-100 | LS-T-300 | LS-T-500 | LS6510 |
|-------------------|-----------------|----------|------------|--------|
| Input Voltage | 120V, 60Hz | | 120V, 60Hz | |
| Output Voltage | 12/13/14V, 60Hz | | 24V DC | |
| Wattage | 100W | 300W | 500W | 240W |
| LS333ANS-2LED, 3W | 14 | 42 | 70 | 45 |
| LS333ANS-2LED, 6W | 7 | 23 | 38 | 29 |
| LS333ANS-2LED, 9W | 5 | 15 | 25 | 18 |

NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary device. These diagrams are not intended to show type or colour of cord / wire, luminaire input voltage rating, wire gauge or approved use of the cord / wire supplied with luminaires.



Pool, Spa & Fountain Power Supply



North American Market

Transformer / Power Supply Specifications

Pool, Spa and Fountain Transformers

LS6510

Power Unit for Pool, Spa & Fountain Luminaires

| Input | 120V |
|-----------------|--|
| Rating | 240W |
| Output | 24 or 30V DC |
| Output Circuits | 1 |
| Approvals | UL 379, CAN/CSA C22.2 No. 218.1, 218.2, CE |
| IP Rating | IP65, suitable for wet locations |
| Dimensions | H 5.3" W 13.4" D 9.3" (H 134mm / W 341mm / D 236mm) |
| Weight | 13.2lb (6.0kg) |

LS-T-100

Magnetic Transformer - wall mounted

| Input | 120V |
|-----------------|--|
| Rating | 100W |
| Output | 12 / 13 / 14V |
| Output Circuits | 1 |
| Protection | Electrostatic shield, short circuit and overvoltage breaker |
| Approvals | UL, CUL |
| NEMA Rating | 3R |
| Construction | Powder coated steel |
| Dimensions | H 9.06" W 5.06" D 4.59" (H 230mm / W 129mm / D 117mm) |
| Weight | 12.5lb (5.7kg) |

LS-T-300

Magnetic Transformer - wall mounted

| Input | 120V |
|-----------------|--|
| Rating | 300W |
| Output | 12 / 13 / 14V |
| Output Circuits | 1 |
| Protection | Electrostatic shield, short circuit and overvoltage breaker |
| Approvals | UL, CUL |
| NEMA Rating | 3R |
| Construction | Powder coated steel |
| Dimensions | H 9.06" W 5.06" D 4.59" (H 230mm / W 129mm / D 117mm) |
| Weight | 13lb (5.9kg) |

LS-T-500

Magnetic Transformer - wall mounted

| Input | 120V |
|-----------------|--|
| Rating | 500W |
| Output | 12 / 13 / 14V |
| Output Circuits | 1 |
| Protection | Electrostatic shield, short circuit and overvoltage breaker |
| Approvals | UL, CUL |
| NEMA Rating | 3R |
| Construction | Powder coated steel |
| Dimensions | H 9.06" W 5.06" D 4.59" (H 230mm / W 129mm / D 117mm) |
| Weight | 14lb (6.4kg) |